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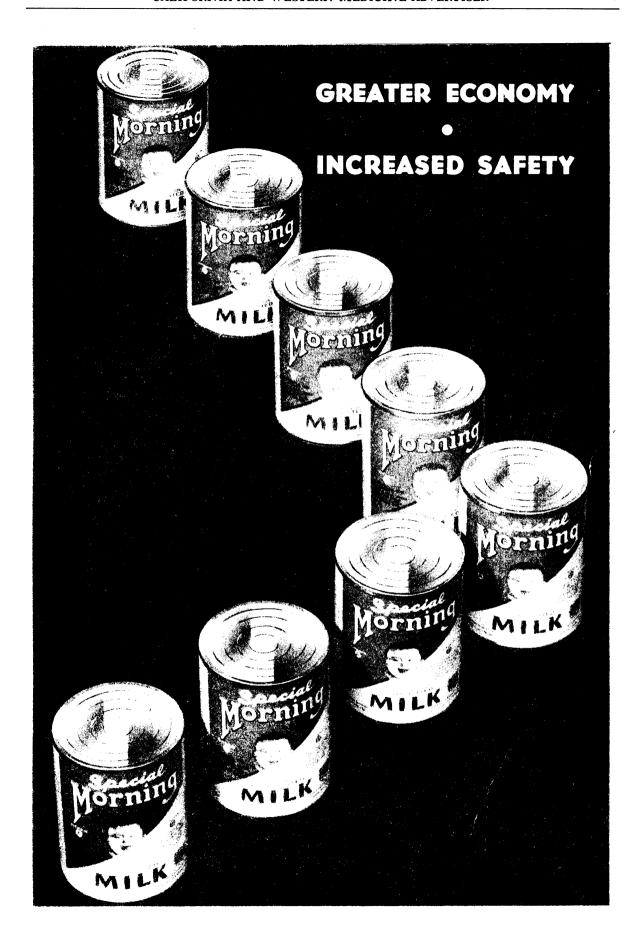
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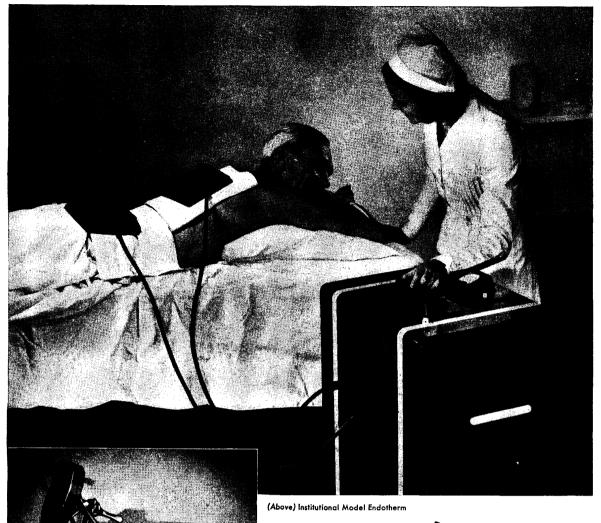
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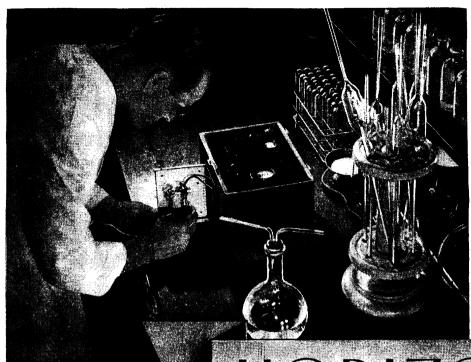
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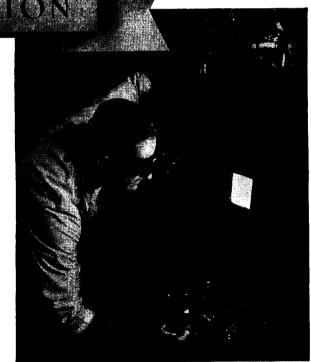
Drugs in the making must prove their safety and worth to the pharmacologist, to the biochemist, to the bacteriologist before they can be passed on for final judgment to the clin-



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ician. Only devotion to an aim can sustain the research worker in his quest for the seemingly unattainable. When his unremitting patience is rewarded and "newhorizons" are reached, it will be the privilege of William R. Warner & Co., Inc., to make these results available to the physician and pharmacist, and through them, to the public.

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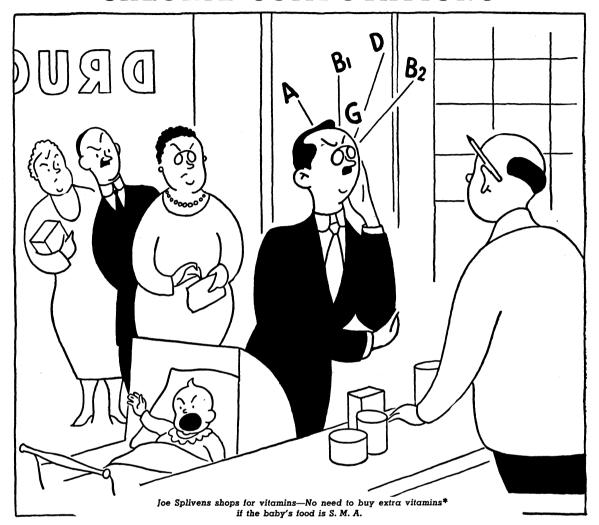
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Vitamins A, B_1 and D are included in S.M.A. in quantities sufficient to meet the needs of the normal infant. Only the addition of vitamin C, as supplemented by orange juice, is required, just as it is for breast-fed infants.

When diluted according to directions, each quart of S.M.A., ready to feed, provides not less than 200 International Units of vitamin B_1 , 7500 U.S.P. units of vitamin A activity, of which approximately 333 U.S.P. units are in the form of Pro-vitamin A (200 gamma of carotene) and not less than 400 U.S.P. units of vitamin D in the form of cod liver oil.

*Except vitamin C

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S. M. A. is a food for infants—derived from tuberculin-tested cow's milk, the fat of which is replaced by animal and vegetable fats induding biologically tested cod liveroil; with the addition of milk sugar and potassium chloride;



altogether forming an antirachitic food. When diluted according to directions, it is essentially similar to human milk in percentages of protein, fat, carbohydrate and ash, in chemical constants of the fat and physical properties.

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Today, each lot of Digitol is physiologically standardized by the "one-hour frog method" official in the U.S.P. XI.

The date of this test appears on the label of each bottle.

Digitol is a fat-free tincture; it makes a more sightly mixture with water on administration. Its elegant appearance, absence of precipitation, accurate standardization and dependable activity are advantages which have been maintained. Digitol is marketed only in one-ounce sealed bottles supplied with a dropper for ease of

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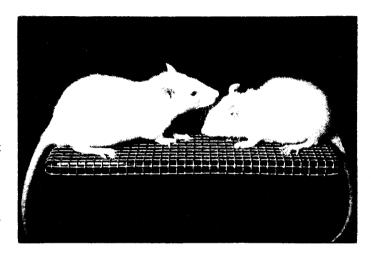




This page is the third of a series on vitamin deficiencies presented by the research division of The Upjohn Company because of the profession's widespread interest in the subject. A full color, twopage insert on the same subject appears in the March 9 issue of The Journal of the American Medical Association.

JNHIBITION of growth in the rat produced by restriction of vitamin A in the diet. The animals, litter mates, were 21 days old at the start of the experiment which was continued for 33 days. The animal at right received a diet containing all nutritive substances except vitamin A; the animal at left, an adequate diet. Note the xerophthalmia in vitamin A deprived rat.

picts almost immediate retardation and cessation of growth.



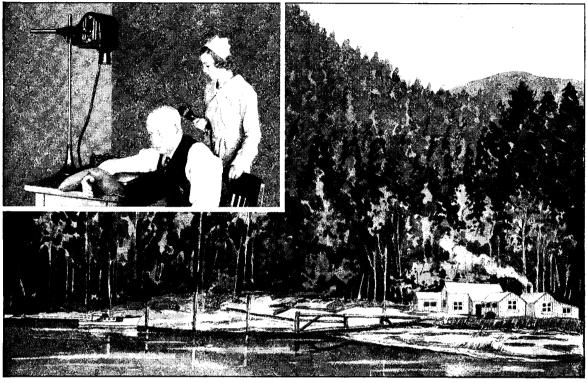
Retardation of Growth Due to Vitamin A Deficiency

While vitamin A is no more essential for growth than are other indispensable nutritional factors, its deprivation leads to well-defined growth retardation in man as well as in

experimental animals. This action is so predictable that it is employed as a basis for one of the methods of vitamin A assay. The immediate effect of vitamin A deficiency on growth is cessation of endochondral bone formation. The curves reproduced illustrate the prompt growth-inhibiting effect of vitamin A

deprivation in rats.

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Nootka Mission Hospital, located in isolated Ceepeecee on the west coast of Vancouver Island off the British Columbia mainland, serves 1500 persons who live and work along a 100-mile stretch of coastline.

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Efficiency and ease of operation were important. Most of the people in the Ceepeecee area are engaged in hazardous work -mining, logging, millwork, fishing-work that produces a large number of emergency

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1/50 as much Fe,

1/17 as much Ca



PABLUM is Richer than any of these Vegetables in IRON and CALCIUM

1 oz. of Pablum contains 221 mg. Ca, 8.5 mg. Fe—So absorptive is Pablum that when mixed to the consistency of ordinary hot cooked cereals it holds 7 times its weight in milk—before being served with milk or cream. Hence an ounce serving of Pablum thus mixed with milk adds at least .53 Gm. calcium to the diet.

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as PABLUM

NOT only does Pablum nave a higher iron and calcium content than vegetables but, most important, clinical studies of children have demonstrated that in Pablum these minerals are in available form. Investigations by Stearns and Stinger, Schlutz, and Cowgill show that even such an iron-rich vegetable as spinach did not increase iron storage in the body, in fact, caused a loss in some instances. A factor responsible for this difference may be the higher content of soluble iron in Pablum-7.8 mg. per oz. Then, too, the water in which Pablum is cooked (by a patented process) is dried with it, whereas the cooking water of vegetables is usually discarded, with its valuable content of minerals and vitamins. Stearns reports difficulty in feeding spinach in sufficient quantities to affect the iron balance of children. Spinach and other highly flavored vegetables are often difficult to feed. Pablum, on the other hand, is a palatable cereal that can be fed as early as the third month, and for older children it can be varied in dozens of appetizing dishes. Recipes and samples available on request of physicians.

Pablum consists of wheatmeal (farina), oatmeal, wheat embryo, cornmeal, beef bone, brewers yeast, alfalfa leaf, sodium chloride and reduced iron

MEAD JOHNSON & COMPANY EVANSVILLE, INDIANA, U.S.A.



as PABLUM

METHODS FOR QUANTITATIVE ESTIMATION OF THE VITAMINS

VI. Measurement of the P-P Factor (Nicotinic Acid)

• Early investigations by the U. S. Public Health Service demonstrated that pellagra may be prevented or cured by dietary regulation. Human subjects confined to an institutional diet known to produce pellagra, were completely protected from this disease by proper supplementation of the institutional diet (1). Ultimately, the existence of the P-P or Pellagra-Preventive factor was established (2).

From the similarity in natural distribution of the dietary factors effective in the control of human pellagra and canine blacktongue-as well as the pathology of these two diseases—the working hypothesis that canine blacktongue is the analogue of human pellagra was adopted (2). Techniques (2, 3) were devised for estimating the pellagra-preventive value of foods by feeding tests with dogs and the results checked by clinical observations with human subjects. The ability of a food to supplement basal diets-known to produce canine blacktongue or human pellagra-so as to prevent or delay the development of characteristic symptoms were the criteria employed for judging the P-P values of foods. Such tests using dogs or human subjects are still the most reliable methods for measuring the P-P potencies of foods (4, 5).

Although pellagra-producing diets may frequently be deficient in a number of essential nutrients (4, 6), the value of nicotinic acid or nicotinic acid amide for the treatment of the specific symptoms of blacktongue or pellagra is well established (7, 8). Recognition of the importance of nicotinic acid in human nutrition created a definite need for rapid methods of estimating the nicotinic acid content of foods. The possibilities of the reaction between nicotinic acid, cyanogen bromide and aromatic amines as a basis of a colorimetric method for estimating nicotinic acid are receiving consideration (9). However, cyanogen bromide and aromatic amines may react with a number of compounds containing the pyridine ring to produce a yellowish green color. Therefore, it is essential that the specificity of any method for nicotinic acid be clearly established before nicotinic acid values determined by the method can be accepted as indicative of the pellagra-preventive values of foods.

Permanent control of endemic pellagra will require inclusion of a larger number of the protective foods in the pellagrin's diet (4, 6). General improvement of diets by this means will serve to correct not only deficiencies of the P-P factor, but of other essential factors, as well. The value of commercially canned foods in a program designed to correct pellagra—as well as its attendant or secondary dietary deficiencies -might well be emphasized.

AMERICAN CAN COMPANY

230 Park Avenue, New York, N. Y.

- (1) 1915. U. S. Pub. Health Reports 30, 3117. 1923. Ibid 38, 2361.
- (2) 1926. U. S. Pub. Health Reports 41, 297. (3) 1928. U. S. Pub. Health Reports 43, 657.
- (4) 1939. The Vitamins: A Symposium, page 297, Amer. Med. Assn., Chicago.
- (5) 1934. U. S. Pub. Health Reports 49, 754.
- (6) 1939. J. Am. Med. Assoc. 112, 2581. 1938. Ibid. 110, 1081. 1939. Am. J. Digestive Diseases 5, 807. (7) 1937. J. Am. Chem. Soc. 59, 1767. 1938. J. Nutrition 16, 355. (8) 1937. J. Am. Med. Assoc. 109, 2054. 1938. Ibid. 110, 622.

- 1938. Nature 141, 830. 1939. Biochem. J. 33, 264.

We want to make this series valuable to you, so we ask your help. Will you tell us on a post card addressed to the American Can Company, New York, N. Y., what phases of canned foods knowledge are of greatest interest to you? Your suggestions will determine the subject matter of future articles. This is the fifty-seventh in a series, which summarize, for your convenience, the conclusions about canned foods reached by authorities in nutritional research.



The Seal of Acceptance denotes that the statements in this advertisement are acceptable to the Council on Foods of the American Medical Association.

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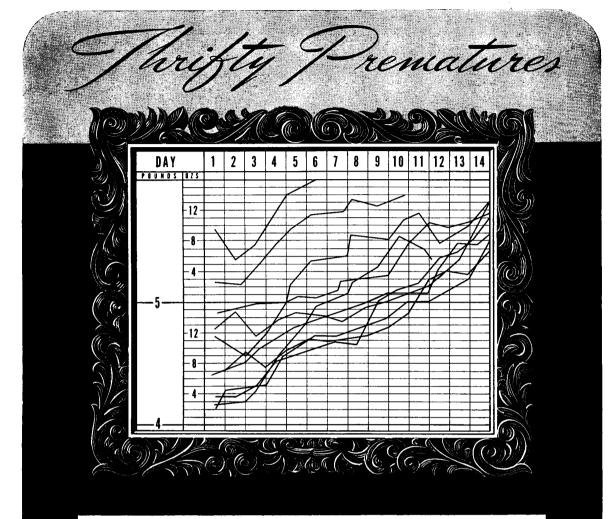
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KARO added to foods is a valuable aid in high caloric feeding—for KARO is relished with milk, fruit and fruit juices, vegetables and vegetable waters, cereals, breads and desserts.



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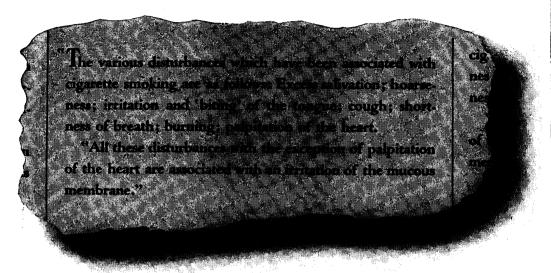
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Laryngoscope, Feb. 1935, Vol. XLV, No. 2, 149-154

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